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Relevance scale

1 An Architecture for Retaining and Analyzing Visual Explorations of Databases

J. P. Lee, Georges Grinstein
October 1995 **Proceedings of the 6th conference on Visualization '95**
Publisher: IEEE Computer Society
Full text available: pdf(954.51 KB) Publisher Site
Additional Information: full citation, abstract, citings

A software architecture is presented to integrate a database management system with data visualization. One of it's primary objectives, the retention of user-data interactions, is detailed. By storing all queries over the data along with high-level descriptions of the query result and associated visualization, the process by wich a database is explored can be analyzed. This approach can lead to contributions in the development of user models as "data explorers", metadata models for scientific da ...

Keywords: visual database exploration, database visualization, metadata, user modeling, interaction

2 Metadata for digital libraries: architecture and design rationale

Michelle Baldonado, Chen-Chuan K. Chang, Luis Gravano, Andreas Paepcke
July 1997 **Proceedings of the second ACM international conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

Keywords: CORBA, InfoBus, attrabute model translation, attribute model translation, digital libraries, heterogeneity, interoperability, metadata architecture, metadata repository, proxy architecture

3 Metadata management in federated multimedia systems

Mark Roantree
January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 CRPITS '02**, Volume 24 Issue 2
Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press
Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, citings, index terms

A Federated Information System requires that multiple (often heterogenous) information

systems are integrated to the extent that they can share data through views. One issue faced during the construction of federated view schemata is the continuous need to extract metadata from cooperating systems. This is more pressing in the case of federated multimedia systems where needless transfer of large binary objects affects system performance. Where participating systems employ an object-oriented comm ...

Keywords: ODMG, federated databases, interoperability, metadata, object-oriented databases

4 Hypermedia operating systems: a new paradigm for computing

Peter J. Nürnberg, John J. Leggett, Erich R. Schneider, John L. Schnase
March 1996 **Proceedings of the the seventh ACM conference on Hypertext**
Publisher: ACM Press
Full text available: pdf(937.23 KB) Additional Information: full citation, references, citings, index terms

5 Language-independent aspect-oriented programming

Donal Lafferty, Vinny Cahill
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press
Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms

The term aspect-oriented programming (AOP) has come to describe the set of programming mechanisms developed specifically to express crosscutting concerns. Since crosscutting concerns cannot be properly modularized within object-oriented programming, they are expressed as aspects and are composed, or woven, with traditionally encapsulated functionality referred to as components.Many AOP models exist, but their implementations are typically coupled with a single language. To allow weaving of exist ...

Keywords: Weave.NET, aspect-oriented programming, common language infrastructure, language-independence

6 Student posters: [4]cite

Richard Lawrence
June 2005 **Proceedings of the 10th annual SIGCSE conference on Innovation and technology in computer science education ITiCSE '05**
Publisher: ACM Press
Full text available: pdf(121.62 KB) Additional Information: full citation, abstract, references, index terms

4cite is a web-based citation package that allows users to store, import, export, and share reference sources. 4cite allows users to access their reference source collection using any internet ready PC. The reference sources can be cited from within word processing packages and bibliographies can be automatically generated. The project is compatible with the Library of Congress Metadata Object Description Schema (MODS). The package is fully extendable allowing users to create new input types at ...

Keywords: bibliography, citation, documentation, reference

7 SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching

Noah Green, Panagiotis G. Ipeirotis, Luis Gravano
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press

Full text available: pdf(301.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe how we combined SDLIP and STARTS, two comple mentary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressible enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

8 A model-based approach to simulation composition

Jesse Aronson, Prasanta Bose

May 1999 **Proceedings of the 1999 symposium on Software reusability**

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, references, index terms

Keywords: component selection, composition, constraints, domain-specific architectural model, hierarchical decomposition, simulation

9 Digital libraries and cyberinfastructure track: creating information representations for the humanities (part 2): Toward a metadata standard for digitized historical newspapers

Ray L. Murray

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(166.47 KB) Additional Information: full citation, abstract, references, index terms

This paper is a case study of metadata development in the early stages of the National Digital Newspaper Program, a twenty-year digital initiative to expand access to historical newspapers in support of research and education. Some of the issues involved in newspaper metadata are examined, and a new XML-based standard is described that is suited to the large volume of data, while remaining flexible into the future.

Keywords: digitization, historical newspapers, national digital newspaper program

10 Digital libraries and cyberinfastructure track: creating information representations for the humanities (part 1): Finding a catalog: generating analytical catalog records from well-structured digital texts

David Mimno, Alison Jones, Gregory Crane

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(210.23 KB) Additional Information: full citation, abstract, references, index terms

One of the criticisms library users often make of catalogs is that they rarely include information below the bibliographic level. It is generally impossible to search a catalog for the titles and subjects of particular chapters or volumes. There has been no way to add this information to catalog records without exponentially increasing the workload of catalogers. At the same time, well-structured full-text XML transcriptions of printed works are becoming increasingly available. This paper descri ...

Keywords: analytical cataloging, information extraction, library automation

11 Digital libraries and cyberinfastructure track: use of digital libraries in the humanities: Integrating digital libraries and electronic publishing in the DART project

Gordon Dahlquist, Brian Hoffman, David Millman

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(309.81 KB) Additional Information: full citation, abstract, references, index terms

The Digital Anthropology Resources for Teaching (DART) project integrates the content acquisition and cataloging initiatives of a federated digital repository with the development of scholarly publications and the creation of digital tools to facilitate classroom teaching. The project's technical architecture and unique publishing model create a teaching context where students move easily between primary and secondary source material and between authored environments and independent research, an ...

Keywords: OAI, digital libraries, electronic publishing, metadata

12 Posters: METEOR: metadata and instance extraction from object referral lists on the web
Hasan Davulcu, Srinivas Vadrevu, Saravanakumar Nagarajan, Fatih Gelgi
May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(176.39 KB) Additional Information: full citation, abstract, references, index terms

The Web has established itself as the largest public data repository ever available. Even though the vast majority of information on the Web is formatted to be easily readable by the human eye, "meaningful information" is still largely inaccessible for the computer applications. In this paper we present the METEOR system which utilizes various presentation and linkage regularities from referral lists of various sorts to automatically separate and extract metadata and instance information. Experi ...

Keywords: extraction, instance, metadata, object, semantic, web

13 Automatically generating OLAP schemata from conceptual graphical models
Karl Hahn, Carsten Sapia, Markus Blaschka
November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP DOLAP '00**
Publisher: ACM Press
Full text available: pdf(118.84 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, conceptual design, data warehouse, graphical multidimensional modeling notation, multidimensional schema generation

14 ITiCSE 2005 working group reports: Development of XML-based tools to support user interaction with algorithm visualization
Thomas Naps, Guido Rößling, Peter Brusilovsky, John English, Duane Jarc, Ville Karavirta, Charles Leska, Myles McNally, Andrés Moreno, Rockford J. Ross, Jaime Urquiza-Fuentes
December 2005 **ACM SIGCSE Bulletin**, Volume 37 Issue 4
Publisher: ACM Press
Full text available: pdf(421.21 KB) Additional Information: full citation, abstract, references, index terms

As a report of a working group at ITiCSE 2005, this paper represents a vision of the use of XML specifications and tools in algorithm visualization, particularly with regard to supporting user interaction. A detailed description is given of how an interesting event to be visualized is decomposed, combined with interactive questions, narratives, control flow code and metadata, and finally rendered into graphical primitive and transformation specifications. The heart of the paper is our discussion ...

Keywords: XML, animation, pedagogy, visualization

15 Object equality profiling

Darko Marinov, Robert O'Callahan
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press

Full text available: pdf(577.47 KB) Additional Information: full citation, abstract, references, citings, index terms

We present *Object Equality Profiling* (OEP), a new technique for helping programmers discover optimization opportunities in programs. OEP discovers opportunities for replacing a set of equivalent object instances with a single representative object. Such a set represents an opportunity for automatically or manually applying optimizations such as hash consing, heap compression, lazy allocation, object caching, invariant hoisting, and more. To evaluate OEP, we implemented a tool to help prog ...

Keywords: Java language, object equality, object mergeability, profile-guided optimization, profiling, space savings

16 Microsoft universal data access platform

José A. Blakeley, Michael J. Pizzo
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2
Publisher: ACM Press

Full text available: pdf(289.83 KB) Additional Information: full citation, abstract, references, index terms

Microsoft Universal Data Access defines a platform for developing multi-tier enterprise applications that require efficient access to diverse relational or non-relational data sources across intranets or the Internet. Universal Data Access consists of a collection of software components that interact with each other using system-level interfaces defined by OLE DB and providing an application-level data access model called ActiveX Data Objects (ADO). This talk provides an overview of the pla ...

Keywords: ADO, ODABC, OLAP, OLE DB, component databases, data access and manipulation, database extensibility, spatial

17 STARTS: Stanford proposal for Internet meta-searching

Luis Gravano, Chen-Chuan K. Chang, Héctor García-Molina, Andreas Paepcke
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

Document sources are available everywhere, both within the internal networks of organizations and on the Internet. Even individual organizations use search engines from different vendors to index their internal document collections. These search engines are typically incompatible in that they support different query models and interfaces, they do not return enough information with the query results for adequate merging of the results, and finally, in that they do not export metadata about t ...

18 Research session: integration and mapping #2: Semantic adaptation of schema mappings when schemas evolve

Cong Yu, Lucian Popa
August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**
Publisher: VLDB Endowment

Full text available: pdf(355.90 KB) Additional Information: full citation, abstract, references, index terms

Schemas evolve over time to accommodate the changes in the information they represent. Such evolution causes invalidation of various artifacts depending on the schemas, such as *schema mappings*. In a heterogenous environment, where cooperation among data sources depends essentially upon them, schema mappings must be adapted to reflect schema evolution. In this study, we explore the *mapping composition* approach for addressing this *mapping adaptation* problem. We study the seman ...

19 Demonstrations: An approach to building model driven enterprise systems in Nebras Enterprise Framework

Navid Khosravi, Farshid Zaker, Mohammad Bakuii Katrimi, Ahmad Zarei, Ali Kamandi
November 2002 **Companion of the 17th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**
Publisher: ACM Press
Full text available: pdf(102.13 KB) Additional Information: full citation, abstract, references, index terms

Using platform independent models (PIMs) in integrating enterprise systems is much more concerned nowadays. In this demonstration we are going to present an approach to build and integrate enterprise systems which has many commonalities with OMG MDA [1] concepts. There are two major integrity points of view in this approach. First, integrity from business process point of view and the second, integrity from object model point of view. We are going to present how these two are achieved in Nebras ...

Keywords: CORBA, PIM, UML, business process, document management system, enterprise, infrastructure, metadata, object model, organization model, workflow management system

20 Interacting with media: Shared interactive video for teleconferencing

Chunyuan Liao, Qiong Liu, Don Kimber, Patrick Chiu, Jonathan Foote, Lynn Wilcox
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a system that allows remote and local participants to control devices in a meeting environment using mouse or pen based gestures "through" video windows. Unlike state-of-the-art device control interfaces that require interaction with text commands, buttons, or other artificial symbols, our approach allows users to interact with devices through live video of the environment. This naturally extends our video supported pan/tilt/zoom (PTZ) camera control system, by allowing gestures in vi ...

Keywords: collaborative device control, distance learning, gesture based device control, panoramic video, video communication, video conferencing, video enabled device control

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21 Invited workshop on adaptive systems for ubiquitous computing: Topic maps for context management

Ruaidhrí Power

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**

Publisher: Trinity College Dublin

Full text available: pdf(98.48 KB) Additional Information: full citation, references

22 DDD papers: Domain driven web development with WebJinn

Sergei Kojarski, David H. Lorenz

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Publisher: ACM Press

Full text available: pdf(266.32 KB) Additional Information: full citation, abstract, references, index terms

Web application development cuts across the HTTP protocol, the client-side presentation language (HTML, XML), the server-side technology (Servlets, JSP, ASP, PHP), and the underlying resource (files, database, information system). Consequently, web development concerns including functionality, presentation, control, and structure cross-cut, leading to tangled and scattered code that is hard to develop, maintain, and reuse. In this paper we analyze the cause, consequence, and remedy for this cros ...

Keywords: JSP, adaptability, aspect-oriented programming (AOP), crosscutting concerns, dynamic pages, generative programming, inter-crosscutting, intra-crosscutting, model-view-controller (MVC), reusability, scattering, struts, tangling, web application, web development, web programming

23 Multimedia: Towards a multimedia formatting vocabulary

Jacco van Ossenbruggen, Lynda Hardma, Joost Geurts, Lloyd Rutledge

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(189.77 KB) Additional Information: full citation, abstract, references, index terms

Time-based, media-centric Web presentations can be described declaratively in the XML world through the development of languages such as SMIL. It is difficult, however, to fully integrate them in a complete document transformation processing chain. In order to achieve the desired processing of data-driven, time-based, media-centric presentations, the text-flow based formatting vocabularies used by style languages such as XSL, CSS and DSSSL need to be extended. The paper presents a selection of u ...

Keywords: Cuypers, document transformation, formatting objects, hyper-media, multimedia

24 Intriguing technology from OOPSLA: Architecture and design of adaptive object-models

Joseph W. Yoder, Federico Balaguer, Ralph Johnson
December 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 12
Publisher: ACM Press
Full text available: pdf(1.52 MB) Additional Information: full citation, abstract, references, index terms

Many object-oriented information systems share an architectural style that emphasizes flexibility and run-time adaptability. Business rules are stored externally to the program such as in a database or XML files instead of in code. The object model that the user cares about is part of the database, and the object model of the code is just an interpreter of the users' object model. We call these systems "Adaptive Object-Models", because the users' object model is interpreted at runtime and can be ...

Keywords: adaptive object-model, adaptive systems, dynamic object-model, meta-architectures, metadata, patterns, reflection, reflective systems meta-modeling

25 Database and digital library technologies: A geolibrary for multimedia data sets: design and implementation issues

Cláudio S. Baptista
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(785.49 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the design and implementation issues of the STepLib geolibrary. STepLib aims to manipulate both spatiotemporal and multimedia data. Currently, the STepLib model supports maps, still images, video, audio and documents, as first class objects. This allows not only for the support of storage and presentation capabilities, but also for indexing and searching of these complex data types. Metadata are used in the model to represent semantic abstraction of the underlying geo-object ...

Keywords: digital libraries, geo-libraries, multimedia databases

26 The Alexandria digital earth prototype

Terence R. Smith, Greg Janee, James Frew, Anita Coleman
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(141.47 KB) Additional Information: full citation, abstract, references, citings, index terms

This note summarizes the system development activities of the Alexandr ia Digital Earth Prototype (ADEPT) Project.5 ADEPT and the Alexandria Digital Library (ADL) are, respectively, the research and operational components of the Alexandria Digital Library Project. The goal of ADEPT is to build a distributed digital library (DL) of personalized collections of geospatially referenced information. This DL is characterized by: (1) services for building, searching, and using personalized coll ...

27 Towards OLAP security design — survey and research issues

Torsten Priebe, Günther Pernul
November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP**
Publisher: ACM Press

Full text available: pdf(107.83 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, access control, data warehouse, design, security

28 Polar: an architecture for a parallel ODMG compliant object database

Jim Smith, Paul Watson, Sandra de F. Mendes Sampaio, Norman Paton
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(229.58 KB) Additional Information: full citation, references, citings, index terms

29 Soft updates: a solution to the metadata update problem in file systems

Gregory R. Ganger, Marshall Kirk McKusick, Craig A. N. Soules, Yale N. Patt
May 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(147.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Metadata updates, such as file creation and block allocation, have consistently been identified as a source of performance, integrity, security, and availability problems for file systems. Soft updates is an implementation technique for low-cost sequencing of fine-grained updates to write-back cache blocks. Using soft updates to track and enforce metadata update dependencies, a file system can safely use delayed writes for almost all file operations. This article describes soft ...

30 Extending document management systems with user-specific active properties

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton
April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(166.43 KB) Additional Information: full citation, abstract, references, citings, index terms

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

31 Preserving digital information forever

Andrew Waugh, Ross Wilkinson, Brendan Hills, Jon Dell'oro
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(115.99 KB) Additional Information: full citation, abstract, references, index terms

Well within our lifetime we can expect to see most information being created, stored and used digitally. Despite the growing importance of digital data, the wider community pays almost no attention to the problems of preserving this digital information for the future. Even within the archival and library communities most work on digital preservation has been theoretical, not practical, and highlights the problems rather than giving solutions. Physical libraries have to preserve information ...

Keywords: archiving, digital preservation

32 Persistent storage for distributed applications

Richard Golding, John Wilkes
September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**
Publisher: ACM Press
Full text available: pdf(676.16 KB) Additional Information: full citation, index terms

33 Report on the second IEEE metadata conference (Metadata '97)

Ron Musick, Chris Miller
March 1998 **ACM SIGMOD Record**, Volume 27 Issue 1
Publisher: ACM Press
Full text available: pdf(113.03 KB) Additional Information: full citation, abstract, index terms

On September 15th and 16th, 1997 the Second IEEE Metadata Conference was held at the National Oceanic and Atmospheric Administration (NOAA) complex in Silver Spring, Maryland. The main objectives of this conference series are to provide a forum to address metadata issues faced by various communities, promote the interchange of ideas on common technologies and standards related to metadata, and facilitate the development and usage of metadata. Metadata'97 met these objectives, drawing about 280 r ...

34 WWW-UDK: a web-based environmental meta-information system

Ralf Kramer, Ralf Nicholai, Arne Koschel, Claudia Rolker, Peter Lockemann, Andree Keitel, Rudolf Legat, Konrad Tirm
March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(230.86 KB) Additional Information: full citation, abstract, citings, index terms

The environmental data catalogue *Umweltdatenkatalog* UDK is a standard meta-information system for environmental data for use by state authorities and the public. Technically, the UDK consists of a database together with a front-end tailored to the needs of environmental specialists. FZI's contribution has been to develop a front-end that makes the UDK database available using the tools and techniques of the World-Wide Web. Among the features of WWW-UDK are several query modes for the UDK ...

35 Incorporating design schedule management into a flow management system

Eric W. Johnson, Jay B. Brockman
January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**
Publisher: ACM Press
Full text available: pdf(55.25 KB) Additional Information: full citation, references, citings, index terms

36 Versioning a full-text information retrieval system

Peter G. Anick, Rex A. Flynn
June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present an approach to the incorporation of object versioning into a distributed full-text information retrieval system. We propose an implementation based on "partially versioned" index sets, arguing that its space overhead and query-time performance make it suitable for full-text IR, with its heavy dependence on inverted

indexing. We develop algorithms for computing both historical queries and time range queries and show how these algorithms can be applied to ...

37 Service selection and metadata: Automating metadata generation: the simple indexing interface

Kris Cardinaels, Michael Meire, Erik Duval
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(302.39 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

38 Demonstrations: EVIADA: ethnomusicological video for instruction and analysis digital archive

Jon W. Dunn, William G. Cowan
June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(232.13 KB) Additional Information: full citation, abstract, references, index terms

The field of ethnomusicology depends heavily on ethnographic research or "fieldwork" by researchers that often involves the capture and subsequent analysis of audio and video information, to help document and understand the musical practices of people all over the world. Ethnomusicologists have used a variety of recording technologies over the years to capture film and video, and much of this footage lies in researchers' offices and home basements. No systematic mechanism exists for preserving a ...

Keywords: annotation, ethnomusicology, metadata, music, video

39 Tools & techniques track: frameworks for building libraries: Using collection descriptions to enhance an aggregation of harvested item-level metadata

Muriel Foulonneau, Timothy W. Cole, Thomas G. Habing, Sarah L. Shreeves
June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, index terms

As an increasing number of digital library projects embrace the harvesting of item-level descriptive metadata, issues of description granularity and concerns about potential loss of context when harvesting item-level metadata take on greater significance. Collection-level description can provide valuable context for item-level metadata records harvested from disparate and heterogeneous providers. This paper describes an ongoing experiment using collection-level description in concert with item-l ...

Keywords: collection-level description, descriptive metadata, metadata aggregation, open archives initiative

40 Tutorials: tutorial 1: XML and relational database management systems: inside Microsoft® SQL Server™ 2005

Michael Rys
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on**

Management of data
Publisher: ACM Press
Full text available: pdf(324.86 KB) Additional Information: full citation, abstract, references

Microsoft® SQL Server™ has a long history of XML support dating back to 1999. While first concentrating on enabling the transport of relational data via XML with the SQL Server 2000 release, SQL Server 2005 now additionally provides native XML storage and query support. This part of the tutorial will provide an insight into how SQL Server 2005 fits XML functionality into its core relational database management framework.

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41 Posters: Associative sources and agents for zero-input publishing

David Wolber, Christopher H. Brooks
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Publisher: ACM Press
Full text available: pdf(147.90 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an associative agent that allows seamless navigation from one's own personal space to third-party associative sources, as well as the personal spaces of other users. The agent provides users with access to a dynamically growing list of information sources, all of which follow a common associative sources API that we have defined. The agent also allows users act as sources themselves and take part in peer-to peer knowledge sharing.

Keywords: agents, aggregation, associativity, context, polymorphism, reconnaissance, web services

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1 **Database and digital library technologies: A geolibrary for multimedia data sets: design and implementation issues**

Cláudio S. Baptista

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(785.49 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the design and implementation issues of the STepLib geolibrary. STepLib aims to manipulate both spatiotemporal and multimedia data. Currently, the STepLib model supports maps, still images, video, audio and documents, as first class objects. This allows not only for the support of storage and presentation capabilities, but also for indexing and searching of these complex data types. Metadata are used in the model to represent semantic abstraction of the underlying geo-object ...

Keywords: digital libraries, geo-libraries, multimedia databases

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